

## UniProtKB/Swiss-Prot family/domain classification: TGF-beta family

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Family/domain
TGF-beta family
Hierarchical classification
Tall families and domains
  † family
    TGF-beta family
       TGF-beta family. GDNF subfamily
CC SIMILARITY line
This is the list of all UniProtKB/Swiss-Prot entries containing the line:
        CC -!- SIMILARITY: Belongs to the TGF-beta family.
extracted from the index of CC SIMILARITY lines.
UniProtKB/Swiss-Prot entries
TGF-beta family
     60A DROME
                  (P27091), 60A DROVI
                                         (Q24735), BMP10_HUMAN (095393),
     BMP10_MOUSE (Q9R229), BMP15_HUMAN (095972), BMP15_MOUSE (Q9Z0L4),
     BMP15 SHEEP (Q9MZE2), BMP2A XENLA (P25703), BMP2B XENLA (P30884),
     BMP2_CHICK (Q90751), BMP2_DAMDA (019006), BMP2_HUMAN (P12643),
     BMP2 MOUSE (P21274), BMP2 RABIT
                                         (<u>046564</u>), BMP2_RAT
                                                                (P49001),
     BMP3B HUMAN (P55107), BMP3B MOUSE (P97737), BMP3B RAT
                                                                (P55108),
     BMP3B_XENLA (Q7T2X6), BMP3_BOVIN
                                         (P22444), BMP3 HUMAN
                                                                (P12645),
     BMP3_MOUSE (Q8BHE5), BMP3_RAT
                                         (P49002), BMP3_XENLA
                                                                (Q7T2X7),
     BMP4_CHICK (Q90752), BMP4_DAMDA
                                         (Q29607), BMP4 HUMAN
                                                                (P12644),
    BMP4_MOUSE (P21275), BMP4_RABIT
                                         (046576), BMP4 RAT
                                                                (Q06826),
     BMP4_XENLA (<u>P30885</u>), BMP5_HUMAN (<u>P22003</u>), BMP5_MOUSE
                                                                (P49003),
     BMP6_HUMAN (<u>P22004</u>), BMP6_MOUSE (<u>P20722</u>), BMP6_RAT
                                                                (Q04906),
     BMP7_CANFA
                (P34819), BMP7 HUMAN (P18075), BMP7 MOUSE
                                                                (P23359),
     BMP7 XENLA (P30886), BMP8A MOUSE (P34821), BMP8B_HUMAN (P34820),
     BMP8B_MOUSE (P55105), DAF7_CAEEL
                                         (<u>P92172</u>), <u>DECA_DROME</u>
                                                                 (P07713),
                                         (P91706), DECA_TRICA
     DECA_DROPS (P91699), DECA_DROSI
                                                                 (Q26974),
                                         (P35621), DVR1_STRPU
     DSL1_CHICK (P34822), DVR1_BRARE
                                                                (P48969),
     DVR1_XENLA (<u>P09534</u>), GDF11 HUMAN (<u>095390</u>), GDF11_MOUSE (<u>Q921W4</u>),
     GDF11 RAT
                 (Q9Z217), GDF15 HUMAN (Q99988), GDF15_MOUSE (Q9Z0J7),
                                         (P27539), GDF1 MOUSE
     GDF15 RAT
                  (Q9Z0J6), GDF1 HUMAN
                                                                (P20863),
                                         (Q9WV56), GDF3_HUMAN
     GDF2_HUMAN (Q9UK05), GDF2_MOUSE
                                                                (Q9NR23),
     GDF3_MOUSE (Q07104), GDF5 HUMAN
                                         (P43026), GDF5 MOUSE
                                                                (P43027),
     GDF6 BOVIN
                (<u>P55106</u>), GDF6 MOUSE
                                         (P43028), GDF7 CERAE
                                                                (Q9BDW8),
                                         (P43029), GDF8 AEPME
     GDF7 HUMAN
                (Q7Z4P5), GDF7_MOUSE
                                                                (Q5USV7),
     GDF8_ALOLA (Q6J1J2), GDF8_ANTAM
                                         (Q5USV5), GDF8 BOSGA
                                                                (Q5USW1),
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GDF8 BOSIN
                   (Q5RZV4), GDF8_BOVIN
                                           (<u>018836</u>), GDF8_BRARE
                                                                   (042222),
                                           (Q6UKZ8), GDF8_CAPHI
     GDF8 BUBBU
                  (Q6X5V1), GDF8_CANFA
                                                                   (Q6T5B8),
     GDF8 CAPIB
                  (Q5USV9), GDF8_CHICK
                                           (<u>042220</u>), GDF8_HEMJE
                                                                   (Q5USV8),
                   (Q9GM97), GDF8_HUMAN
                                           (014793), GDF8_LEPCA
     GDF8 HORSE
                                                                   (Q8HY52),
     GDF8_MACFA
                   (Q95J86), GDF8_MELGA
                                           (<u>042221</u>), GDF8_MOUSE
                                                                   (008689),
                   (<u>018828</u>), GDF8_PIG
                                           (<u>018831</u>), GDF8_RAT
     GDF8_PAPHA
                                                                   (035312),
                   (<u>018830</u>), GDF8_SYLGR
                                           (Q5USV6), GDF8_TAUDE
     GDF8 SHEEP
                                                                   (Q5USW0),
                                           (Q66NC0), GDF9_HUMAN
     GDF8_VULVU
                  (Q6DTL9), GDF9_CAPHI
                                                                   (060383),
     GDF9 MOUSE
                  (Q07105), GDF9 SHEEP
                                           (077681), INHA BOVIN
                                                                   (P07994),
     INHA CHICK
                  (P43031), INHA HORSE
                                           (P55101), INHA HUMAN
                                                                   (P05111),
     INHA MOUSE
                  (Q04997), INHA PIG
                                           (P04087), INHA RAT
                                                                   (P17490),
     INHA_SHEEP
                                           (077755), INHBA_BOVIN (P07995),
                   (P38440), INHA TRIVU
     INHBA CHICK (P27092), INHBA HORSE (P55102), INHBA HUMAN
                                                                   (P08476),
     INHBA_MOUSE (Q04998), INHBA_PIG
                                           (<u>P03970</u>), INHBA_RAT
                                                                   (P18331),
     INHBA_SHEEP (P43032), INHBB_BOVIN (P42917), INHBB_CHICK (P27093),
     INHBB HUMAN (P09529), INHBB MOUSE (Q04999), INHBB PIG
                                                                   (P04088),
     INHBB RAT
                  (P17491), INHBC_HUMAN (P55103), INHBC_MOUSE (P55104),
     INHBC RAT
                  (Q9WUK5), INHBE_HUMAN (P58166), INHBE_MOUSE (O08717),
                  (088959), INHB DROME
     INHBE RAT
                                           (<u>061643</u>), LEFTB_HUMAN
                                                                   (075610),
     LEFTB_MOUSE (P57785), MIS_BOVIN
                                           (<u>P03972</u>), MIS_HUMAN
                                                                   (P03971),
     MIS MOUSE
                  (<u>P27106</u>), MIS_PIG
                                           (P79295), MIS_RAT
                                                                   (P49000),
     NODAL_HUMAN (Q96S42), NODAL_MOUSE (P43021), SCW_DROME
                                                                   (P54631),
     TGFB1_BOVIN (\underline{P18341}), TGFB1_CANFA (\underline{P54831}), TGFB1_CAVPO (\underline{Q9Z1Y6}),
     TGFB1\_CERAE (P09533), TGFB1\_CHICK (P09531), TGFB1\_CYPCA (Q9PTQ2),
     TGFB1_HORSE (019011), TGFB1_HUMAN (P01137), TGFB1_MOUSE (P04202),
     TGFB1 ONCMY (093449), TGFB1 PIG
                                           (P07200), TGFB1 RAT
                                                                   (P17246),
     TGFB1_SHEEP (P50414), TGFB1_XENLA (P16176), TGFB2_BOVIN
                                                                   (P21214),
     TGFB2_CERAE (P61811), TGFB2_CHICK (P30371), TGFB2_HUMAN (P61812),
     TGFB2_MOUSE (P27090), TGFB2_PIG
                                           (<u>P09858</u>), TGFB2_RAT
                                                                   (Q07257),
     TGFB2_XENLA (P17247), TGFB3_CHICK (P16047), TGFB3_HUMAN (P10600),
     TGFB3_MOUSE (P17125), TGFB3 PIG
                                           (<u>P15203</u>), TGFB3_RAT
                                                                   (Q07258),
     TGFB4_HUMAN (000292), TGFB4_MOUSE (064280), UNIV_STRPU
                                                                   (P48970)
TGF-beta family. GDNF subfamily
                  (<u>P39905</u>), GDNF_MOUSE
     GDNF_HUMAN
                                           (P48540), GDNF_RAT
                                                                 . (Q07731),
     NRTN HUMAN
                  (<u>Q99748</u>), NRTN_MOUSE
                                          (P97463), PSPN HUMAN
     PSPN MOUSE
                  (070300), PSPN RAT
                                           (070301)
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Science. 1990 Mar 16;247(4948):1306-10.

Related Articles, Links

Deciphering the message in protein sequences: tolerance to amino acid substitutions.

Bowie JU, Reidhaar-Olson JF, Lim WA, Sauer RT.

Department of Biology, Massachusetts Institute of Technology, Cambridge 02139.

An amino acid sequence encodes a message that determines the shape and function of a protein. This message is highly degenerate in that many different sequences can code for proteins with essentially the same structure and activity. Comparison of different sequences with similar messages can reveal key features of the code and improve understanding of how a protein folds and how it performs its function.

PMID: 2315699 [PubMed - indexed for MEDLINE]